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BIOTECHNOLOGY
SYSTEMS
BRANCH



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- FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.**

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

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Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
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Revised 01/29/2002



OIPE

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/851,494A

DATE: 06/05/2002

TIME: 10:00:21

Input Set : A:\Sequence Listing (ASCII copy).txt

Output Set: N:\CRF3\06052002\I851494A.raw

1/2
MF
Does Not Comply
Corrected Diskette Needed.

3 <110> APPLICANT: ML4 Foundation
 4 Goldin, Ehud
 5 Slaugenhouette, Susan A.
 6 Sun, Mei
 7 Acierno, James S.
 9 <120> TITLE OF INVENTION: A Gene Encoding A New TRP Channel is Mutated in
 Mucolipidosis IV
 11 <130> FILE REFERENCE: 3394/1H557US1
 13 <140> CURRENT APPLICATION NUMBER: 09/851,494A
 14 <141> CURRENT FILING DATE: 2001-05-08
 16 <160> NUMBER OF SEQ ID NOS: 11
 18 <170> SOFTWARE: PatentIn version 3.1

ERRORED SEQUENCES

703 <210> SEQ ID NO: 4
 704 <211> LENGTH: 552 shown (p.2)
 705 <212> TYPE: PRT
 706 <213> ORGANISM: Homo sapiens
 708 <400> SEQUENCE: 4
 710 Met Ala Asp Pro Glu Val Val Val Cys Ser Cys Ser Ser His Glu Glu
 711 1 5 10 15
 714 Glu Asn Arg Cys Asn Phe Asn Gln Gln Thr Ser Pro Ser Glu Glu Leu
 715 20 25 30
 718 Leu Leu Glu Asp Gln Met Arg Arg Lys Leu Lys Phe Phe Phe Met Asn
 719 35 40 45
 722 Pro Cys Glu Lys Phe Trp Ala Arg Gly Arg Lys Pro Trp Lys Leu Ala
 723 50 55 60
 726 Ile Gln Ile Leu Lys Ile Ala Met Val Thr Ile Gln Leu Val Leu Phe
 727 65 70 75 80
 730 Gly Leu Ser Asn Gln Met Val Val Ala Phe Lys Glu Glu Asn Thr Ile
 731 85 90 95
 734 Ala Phe Lys His Leu Phe Leu Lys Gly Tyr Met Asp Arg Met Asp Asp
 735 100 105 110
 738 Thr Tyr Ala Val Tyr Thr Gln Ser Asp Val Tyr Asp Gln Leu Ile Phe
 739 115 120 125
 742 Ala Val Asn Gln Tyr Leu Gln Leu Tyr Asn Val Ser Val Gly Asn His
 743 130 135 140
 746 Ala Tyr Glu Asn Lys Gly Thr Lys Gln Ser Ala Met Ala Ile Cys Gln
 747 145 150 155 160
 750 His Phe Tyr Lys Arg Gly Asn Ile Tyr Pro Gly Asn Asp Thr Phe Asp
 751 165 170 175
 754 Ile Asp Pro Glu Ile Glu Thr Glu Cys Phe Phe Val Glu Pro Asp Glu

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/851,494A

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Input Set : A:\Sequence Listing (ASCII copy).txt
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755	180	185	190
758	Pro Phe His Ile Gly Thr Pro Ala Glu Asn Lys Leu Asn Leu Thr Leu		
759	195	200	205
762	Asp Phe His Arg Leu Leu Thr Val Glu Leu Gln Phe Lys Leu Lys Ala		
763	210	215	220
766	Ile Asn Leu Gln Thr Val Arg His Gln Glu Leu Pro Asp Cys Tyr Asp		
767	225	230	235
770	Phe Thr Leu Thr Ile Thr Phe Asp Asn Lys Ala His Ser Gly Arg Ile		
771	245	250	255
774	Lys Ile Ser Leu Asp Asn Asp Ile Ser Ile Arg Glu Cys Lys Asp Trp		
775	260	265	270
778	His Val Ser Gly Ser Ile Gln Lys Asn Thr His Tyr Met Met Ile Phe		
779	275	280	285
782	Asp Ala Phe Val Ile Leu Thr Cys Leu Val Ser Leu Ile Leu Cys Ile		
783	290	295	300
786	Arg Ser Val Ile Arg Gly Leu Gln Leu Gln Gln Glu Phe Val Asn Phe		
787	305	310	315
790	Phe Leu Leu His Tyr Lys Lys Glu Val Ser Val Ser Asp Gln Met Glu		
791	325	330	335
794	Phe Val Asn Gly Trp Tyr Ile Met Ile Ile Ser Asp Ile Leu Thr		
795	340	345	350
798	Ile Ile Gly Ser Ile Leu Lys Met Glu Ile Gln Ala Lys Ser Leu Thr		
799	355	360	365
802	Ser Tyr Asp Val Cys Ser Ile Leu Leu Gly Thr Ser Thr Met Leu Val		
803	370	375	380
806	Trp Leu Gly Val Ile Arg Tyr Leu Gly Phe Phe Ala Lys Tyr Asn Leu		
807	385	390	395
810	Leu Ile Leu Thr Leu Gln Ala Ala Leu Pro Asn Val Ile Arg Phe Cys		
811	405	410	415
813	Cys Ala Ala Met Ile Tyr Leu Gly Tyr Cys Phe Cys Gly Trp Ile		
814	420	425	430
817	Val Leu Gly Pro Tyr His Asp Lys Phe Arg Ser Leu Asn Met Val Ser		
E--> 818	435	440	445
821	Glu Cys Leu Phe Ser Leu Ile Asn Gly Asp Asp Met Phe Ala Thr Phe		
E--> 822	450	455	460
825	Ala Lys Met Gln Gln Lys Ser Tyr Leu Val Trp Leu Phe Ser Arg Ile		
E--> 826	465	470	475
829	Tyr Leu Tyr Ser Phe Ile Ser Leu Phe Ile Tyr Met Ile Leu Ser Leu		
E--> 830	485	490	495
833	Phe Ile Ala Leu Ile Thr Asp Thr Tyr Glu Thr Ile Lys Gln Tyr Gln		
E--> 834	500	505	510
837	Gln Asp Gly Phe Pro Glu Thr Glu Leu Arg Thr Phe Ile Ser Glu Cys		
E--> 838	515	520	525
841	Lys Asp Leu Pro Asn Ser Gly Lys Tyr Arg Leu Glu Asp Asp Pro Pro		
E--> 842	530	535	540
845	Val Ser Leu Phe Cys Cys Lys Lys		
E--> 846	545	550	

← amino acid missing at location 432

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/851,494A

DATE: 06/05/2002

TIME: 10:00:22

Input Set : A:\Sequence Listing (ASCII copy).txt
Output Set: N:\CRF3\06052002\I851494A.raw

L:818 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:4
M:332 Repeated in SeqNo=4
L:846 M:252 E: No. of Seq. differs, <211> LENGTH:Input:553 Found:552 SEQ:4